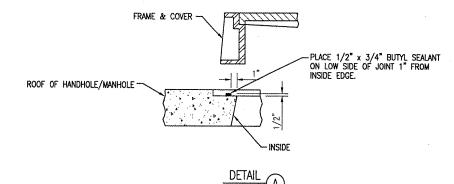
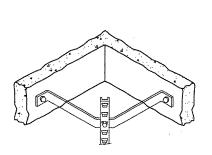
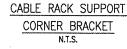
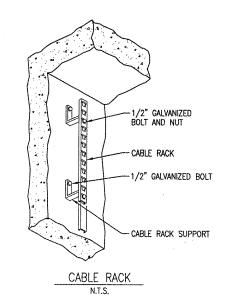


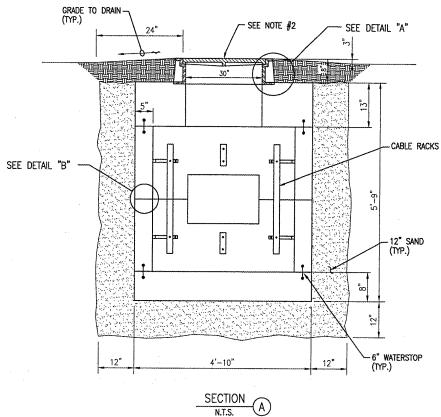
PRECAST 4'x4'x4' AIRPORT MANHOLE











4'x4'x4' AIRPORT MANHOLE DETAILS

## PRECAST 4'x4'x4' AIRPORT MANHOLE NOTES

1. 4'x4'x4' AIRPORT MANHOLE SHALL BE CONSTRUCTED TO MEET THE FOLLOWING:

1) DESIGN SPECIFICATIONS: ACI 318, ASTM C858, FAA AC 150/5320-6D

### 2) DESIGN LOADING:

B727-200 (210,000 LB. TAXI WEIGHT, 97,600 LB. MAX. GEAR) B777-200/300 (752,000 LB. TAXI WEIGHT, 352,000 LB. MAX. GEAR)

- 3) LIVE LOAD SURCHARGE: 24.5% OF THE WHEEL LOAD SOIL PRESSURE
- 4) CONCRETE COMPRESSIVE STRENGTH: F'c = 5,000 PSI

# 5) REINFORCING STEEL: ASTM A706, Fy = 60,000 PSI

- <u>DESIGN\_ASSUMPTIONS:</u>
  1) GROUND WATER LEVEL: 3'-6" BELOW GRADE
- 2) EARTH COVER: 0'-8" 2'-0"
- 3) LIVE LOAD IMPACT: 1 = 20%
- 4) COEFFICIENT OF ACTIVE EARTH PRESSURE: Kg = 0.3
- 5) SPECIFIC WEIGHT OF STD. AGGREGATE CONCRETE: 150 PCF 6) SPECIFIC WEIGHT OF DRY EARTH: 100 PCF
- 7) SPECIFIC WEIGHT OF SATURATED EARTH: 120 PCF
- 8) EQUIVALENT FLUID PRESSURE OF DRY EARTH: 30 PSF
- 9) EQUIVALENT FLUID PRESSURE OF SATURATED EARTH: 80 PSF
- 2. AIRPORT MANHOLE FRAME & LID SHALL BE CAPABLE OF WITHSTANDING MINIMUM 100,000 POUND LOADS AS CALLED FOR IN FAA ADVISORY CIRCULAR AC 150/5320-6D APPENDIX 3 ITEM 2.d. (1). AIRPORT MANHOLE FRAME & LID SHALL BE NEENAH CATALOG NO. R-3492-A OR APPROVED EQUAL LID FOR HIGH VOLTAGE MANHOLE
- SHALL BE LABELED "HIGH VOLTAGE". LID FOR LOW VOLTAGE MANHOLE SHALL BE LABELED "LOW VOLTAGE".
- 3. COORDINATE DUCT BANK INTERFACE & OPENINGS WITH THE MANHOLE MFR. CONTRACTOR SHALL SLOPE DUCT BANK TO PRECAST MANHOLE OPENINGS. ALL OPENINGS SHALL BE SEALED WATERTIGHT AFTER DUCT BANK INSTALLATION.
- 4'x4'x4' AIRPORT MANHOLE SHALL BE MANUFACTURED BY HARTFORD CONCRETE PRODUCTS, INC., 1400 N. WABASH AVE., P.O. BOX 660, HARTFORD CITY, IN. 47348, PHONE 765-348-3506 OR 1-800-428-8110, OR APPROVED EQUIVALENT.
- 4'x4'x4' AIRPORT MANHOLE SHALL BE PAID FOR UNDER ITEM AR110715 ELECTRICAL MANHOLE SPECIAL PER EACH.

CO053 COLES COUNTY AIRPORT
AUTHORITY

HANSON

REPLACE ELECTRICAL JUCT IN FRONTAL AREA 4' x 4' x 4' AIRPORT MANHOLE

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